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# -*- coding: utf-8 -*-

# Form implementation generated from reading ui file 'main.ui'
#
# Created: Mon Jun 15 15:44:32 2009
#       by: PyQt4 UI code generator 4.4.3
#
# WARNING! All changes made in this file will be lost!

from PyQt4 import QtCore, QtGui
from PyQt4.Qwt5 import QwtThermo
import sys
from PyQt4 import Qt
import PyQt4.Qwt5 as Qwt

class Ui_MainWindow(object):

    def setupUi(self, MainWindow):
#----- VARIABILI GLOBALI -----
        self.step = 0
        self.ms = 0
        self.sec = 0
        self.min = 0
        self.start_timer = 0
        self.giro = 0
        self.stringa = ' '
#----- FINESTRA PRINCIPALE -----
        MainWindow.setObjectName("MainWindow")
        MainWindow.resize(1009, 598)
        self.centralwidget = QtGui.QWidget(MainWindow)
        self.centralwidget.setObjectName("centralwidget")
        self.Telemetria = QtGui.QGroupBox(self.centralwidget)
        self.Telemetria.setGeometry(QtCore.QRect(10, 70, 541, 471))
        self.Telemetria.setObjectName("Telemetria")
#----- RICHIAMO TIMER -----
        self.timer = QtCore.QTimer()
        QtCore.QObject.connect(self.timer, QtCore.SIGNAL("timeout()"), self.Conta)
#-----LISTA TEMPI-----
        self.lista_tempi = QtGui.QListWidget(self.Telemetria)
        self.lista_tempi.setGeometry(QtCore.QRect(230, 30, 301, 131))
        self.lista_tempi.setHorizontalScrollBarPolicy(QtCore.Qt.ScrollBarAlwaysOff)
        self.lista_tempi.setGridSize(QtCore.QSize(2, 2))
        self.lista_tempi.setObjectName("lista_tempi")
        if self.step == 0:
            self.stringa_split = 'Lap ' + str(0) + '      ' + str(0) + ' : ' + str(0) + ' : ' + str(0)
            self.lista_tempi.addItem(self.stringa_split)
#-----INSERIMENTO CIRCUITO-----
        self.circuito = QtGui.QLineEdit(self.Telemetria)
        self.circuito.setGeometry(QtCore.QRect(110, 50, 113, 21))
        self.circuito.setObjectName("circuito")
#-----
        self.label_DataOra = QtGui.QLabel(self.Telemetria)
        self.label_DataOra.setGeometry(QtCore.QRect(30, 30, 61, 16))
        self.label_DataOra.setFrameShape(QtGui.QFrame.Panel)
        self.label_DataOra.setFrameShadow(QtGui.QFrame.Plain)
        self.label_DataOra.setObjectName("label_DataOra")

        self.label_circuito = QtGui.QLabel(self.Telemetria)
        self.label_circuito.setGeometry(QtCore.QRect(140, 30, 46, 16))

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self.label_circuito.setFrameShape(QtGui.QFrame.Box)
self.label_circuito.setObjectName("label_circuito")

self.groupBox_2 = QtGui.QGroupBox(self.Telemetria)
self.groupBox_2.setGeometry(QtCore.QRect(10, 89, 211, 111))
self.groupBox_2.setFlat(False)
self.groupBox_2.setObjectName("groupBox_2")

#-----VISUALIZZO MINUTI
SECONDI-----
self.min_sec = QtGui.QLabel(self.groupBox_2)
self.min_sec.setGeometry(QtCore.QRect(10, 20, 71, 21))
font = QtGui.QFont()
font.setPointSize(15)
font.setWeight(50)
font.setBold(False)
self.min_sec.setFont(font)
self.min_sec.setLayoutDirection(QtCore.Qt.RightToLeft)
self.min_sec.setFrameShape(QtGui.QFrame.Box)
self.min_sec.setObjectName("min_sec")

#-----VISUALIZZO
MILLISECONDI-----
self.milli = QtGui.QLabel(self.groupBox_2)
self.milli.setGeometry(QtCore.QRect(80, 20, 41, 21))
font = QtGui.QFont()
font.setPointSize(15)
font.setWeight(50)
font.setBold(False)
self.milli.setFont(font)
self.milli.setLayoutDirection(QtCore.Qt.RightToLeft)
self.milli.setFrameShape(QtGui.QFrame.Box)
self.milli.setAlignment(QtCore.Qt.AlignRight|QtCore.Qt.AlignTrailing|QtCore.Qt.
AlignVCenter)
self.milli.setObjectName("Milli")

#-----PULSANTE DI
RESET-----
self.reset = QtGui.QPushButton(self.groupBox_2)
self.reset.setGeometry(QtCore.QRect(140, 20, 61, 24))
self.reset.setObjectName("reset")
QtCore.QObject.connect(self.reset, QtCore.SIGNAL("clicked()"), self.Reset)

#-----PULSANTE DI
START-----
self.start_t = QtGui.QPushButton(self.groupBox_2)
self.start_t.setGeometry(QtCore.QRect(10, 50, 41, 24))
self.start_t.setObjectName("start")
QtCore.QObject.connect(self.start_t, QtCore.SIGNAL("clicked()"), self.Start)

#-----PULSANTE DI
SPLIT-----
self.split = QtGui.QPushButton(self.groupBox_2)
self.split.setGeometry(QtCore.QRect(60, 50, 41, 24))
self.split.setObjectName("split")
QtCore.QObject.connect(self.split, QtCore.SIGNAL("clicked()"), self.Split)

#-----PULSANTE DI
STOP-----
self.stop_t = QtGui.QPushButton(self.groupBox_2)
self.stop_t.setGeometry(QtCore.QRect(110, 50, 41, 24))
self.stop_t.setObjectName("stop")
QtCore.QObject.connect(self.stop_t, QtCore.SIGNAL("clicked()"), self.Stop)

#-----INSERIMENTO DATA ORA
-----
self.data_ora = QtGui.QLineEdit(self.Telemetria)
self.data_ora.setGeometry(QtCore.QRect(12, 50, 101, 21))
self.data_ora.setObjectName("data_ora")
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#-----RICHIAMO
STORICO-----
self.storico_t = QtGui.QPushButton(self.Telemetria)
self.storico_t.setGeometry(QtCore.QRect(230, 170, 75, 31))
self.storico_t.setObjectName("storico_t")

#-----PULSANTE ELIMINA
SESSIONE-----
self.elimina_sess = QtGui.QPushButton(self.Telemetria)
self.elimina_sess.setGeometry(QtCore.QRect(330, 170, 75, 31))
self.elimina_sess.setObjectName("elimina_sess")

#-----
self.Temperature = QtGui.QGroupBox(self.Telemetria)
self.Temperature.setGeometry(QtCore.QRect(340, 220, 191, 241))
self.Temperature.setObjectName("Temperature")

#-----VISUALIZZO TEMPERATURA
ACQUA-----
self.thermo_acqua = QwtThermo(self.Temperature)
self.thermo_acqua.setGeometry(QtCore.QRect(17, 30, 51, 181))
self.thermo_acqua.setAlarmLevel(100.0)
self.thermo_acqua.setScalePosition(QwtThermo.LeftScale)
self.thermo_acqua.setFillColor(QtGui.QColor(0, 0, 0))
self.thermo_acqua.setMaxValue(150.0)
self.thermo_acqua.setMinValue(0.0)
self.thermo_acqua.setPipeWidth(5)
self.thermo_acqua.setProperty("value", QtCore.QVariant(0.0))
self.thermo_acqua.setObjectName("thermo_acqua")

self.label_acqua = QtGui.QLabel(self.Temperature)
self.label_acqua.setGeometry(QtCore.QRect(30, 210, 41, 16))
self.label_acqua.setAlignment(QtCore.Qt.AlignCenter)
self.label_acqua.setObjectName("label_acqua")

#-----VISUALIZZO TEMPERATURA
SCARICO-----
self.thermo_scarico = QwtThermo(self.Temperature)
self.thermo_scarico.setGeometry(QtCore.QRect(90, 30, 51, 181))
self.thermo_scarico.setAlarmLevel(100.0)
self.thermo_scarico.setScalePosition(QwtThermo.LeftScale)
self.thermo_scarico.setFillColor(QtGui.QColor(0, 0, 0))
self.thermo_scarico.setMaxValue(150.0)
self.thermo_scarico.setPipeWidth(5)
self.thermo_scarico.setProperty("value", QtCore.QVariant(0.0))
self.thermo_scarico.setObjectName("thermo_scarico")

self.label_scarico = QtGui.QLabel(self.Temperature)
self.label_scarico.setGeometry(QtCore.QRect(110, 210, 41, 16))
self.label_scarico.setAlignment(QtCore.Qt.AlignCenter)
self.label_scarico.setObjectName("label_scarico")

#-----
self.Prestazioni = QtGui.QGroupBox(self.Telemetria)
self.Prestazioni.setGeometry(QtCore.QRect(10, 220, 311, 241))
self.Prestazioni.setObjectName("Prestazioni")

self.label_giri_min = QtGui.QLabel(self.Prestazioni)
self.label_giri_min.setGeometry(QtCore.QRect(140, 30, 41, 21))
self.label_giri_min.setFrameShape(QtGui.QFrame.Box)
self.label_giri_min.setAlignment(QtCore.Qt.AlignLeading|QtCore.Qt.AlignLeft|QtCore.Qt.
AlignVCenter)
self.label_giri_min.setObjectName("label_giri_min")

#-----VISUALIZZO GIRI
MINUTO-----
self.lcd_giri_min = QtGui.QLCDNumber(self.Prestazioni)
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self.lcd_giri_min.setGeometry(QtCore.QRect(180, 30, 71, 21))
self.lcd_giri_min.setFrameShape(QtGui.QFrame.Panel)
self.lcd_giri_min.setFrameShadow(QtGui.QFrame.Plain)
self.lcd_giri_min.setNumDigits(5)
self.lcd_giri_min.setSegmentStyle(QtGui.QLCDNumber.Flat)
self.lcd_giri_min.setObjectName("lcd_giri_min")

#-----
self.label_Kil_ora = QtGui.QLabel(self.Prestazioni)
self.label_Kil_ora.setGeometry(QtCore.QRect(10, 30, 41, 21))
self.label_Kil_ora.setFrameShape(QtGui.QFrame.Box)
self.label_Kil_ora.setAlignment(QtCore.Qt.AlignLeading|QtCore.Qt.AlignLeft|QtCore.Qt.
AlignVCenter)
self.label_Kil_ora.setObjectName("label_Kil_ora")

#-----VISUALIZZO
VELOCITA-----
self.lcd_kil_ora = QtGui.QLCDNumber(self.Prestazioni)
self.lcd_kil_ora.setGeometry(QtCore.QRect(50, 30, 61, 21))
self.lcd_kil_ora.setFrameShape(QtGui.QFrame.Panel)
self.lcd_kil_ora.setFrameShadow(QtGui.QFrame.Plain)
self.lcd_kil_ora.setNumDigits(4)
self.lcd_kil_ora.setSegmentStyle(QtGui.QLCDNumber.Flat)
self.lcd_kil_ora.setObjectName("lcd_kil_ora")

#-----
self.label_l_pista = QtGui.QLabel(self.Prestazioni)
self.label_l_pista.setGeometry(QtCore.QRect(10, 70, 51, 21))
self.label_l_pista.setFrameShape(QtGui.QFrame.Box)
self.label_l_pista.setAlignment(QtCore.Qt.AlignLeading|QtCore.Qt.AlignLeft|QtCore.Qt.
AlignVCenter)
self.label_l_pista.setObjectName("label_l_pista")

#-----VISUALIZZO LUNGHEZZA
PISTA-----
self.lcd_l_pista = QtGui.QLCDNumber(self.Prestazioni)
self.lcd_l_pista.setGeometry(QtCore.QRect(60, 70, 71, 21))
self.lcd_l_pista.setFrameShape(QtGui.QFrame.Panel)
self.lcd_l_pista.setFrameShadow(QtGui.QFrame.Plain)
self.lcd_l_pista.setNumDigits(5)
self.lcd_l_pista.setSegmentStyle(QtGui.QLCDNumber.Flat)
self.lcd_l_pista.setObjectName("lcd_l_pista")

#-----INSERIMENTO OFFSET
STACCATA-----
self.offset_staccata = QtGui.QLineEdit(self.Prestazioni)
self.offset_staccata.setGeometry(QtCore.QRect(10, 140, 113, 20))
self.offset_staccata.setObjectName("offset_staccata")

self.label_offset_staccata = QtGui.QLabel(self.Prestazioni)
self.label_offset_staccata.setGeometry(QtCore.QRect(10, 120, 111, 16))
self.label_offset_staccata.setFrameShape(QtGui.QFrame.Box)
self.label_offset_staccata.setAlignment(QtCore.Qt.AlignCenter)
self.label_offset_staccata.setObjectName("label_offset_staccata")

#-----SPEDIZIONE OFFSET
STACCATA-----
self.set_dati = QtGui.QPushButton(self.Prestazioni)
self.set_dati.setGeometry(QtCore.QRect(10, 170, 75, 24))
self.set_dati.setObjectName("set_dati")
self.del_dati = QtGui.QPushButton(self.Prestazioni)
self.del_dati.setGeometry(QtCore.QRect(10, 210, 75, 24))
self.del_dati.setObjectName("del_dati")

#-----START
ACQUISIZIONE-----
self.start_acquis = QtGui.QRadioButton(self.Prestazioni)
self.start_acquis.setGeometry(QtCore.QRect(150, 70, 111, 21))
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self.start_acquis.setObjectName("start_acquis")

#-----BOTTONE DA
ELIMINARE-----
self.pushButton = QtGui.QPushButton(self.centralwidget)
self.pushButton.setGeometry(QtCore.QRect(10, 20, 75, 23))
self.pushButton.setObjectName("pushButton")
QtCore.QObject.connect(self.pushButton, QtCore.SIGNAL("clicked()"), MainWindow.close)

#----- MENU BAR E TOOLBAR
-----
MainWindow.setCentralWidget(self.centralwidget)
self.menubar = QtGui.QMenuBar(MainWindow)
self.menubar.setGeometry(QtCore.QRect(0, 0, 1009, 21))
self.menubar.setObjectName("menubar")
MainWindow.setMenuBar(self.menubar)
self.statusbar = QtGui.QStatusBar(MainWindow)
self.statusbar.setObjectName("statusbar")
MainWindow.setStatusBar(self.statusbar)
self.toolBar = QtGui.QToolBar(MainWindow)
self.toolBar.setObjectName("toolBar")
MainWindow.addToolBar(QtCore.Qt.TopToolBarArea, self.toolBar)

#----- RICHIAMO WIDGET FINESTRA
-----

self.retranslateUi(MainWindow)
QtCore.QMetaObject.connectSlotsByName(MainWindow)

#-----

def Conta(self):
    self.step = self.step + 1
    self.ms = self.step
    if self.start_timer == 1 :
        if self.step == 1000 :
            self.step = 0
            self.sec = self.sec + 1
            if self.sec == 60 :
                self.sec = 0
                self.step = 0
                self.min = self.min + 1
    self.stringa = str(self.min)+':' + str(self.sec) #converto numero in stringa
    self.min_sec.setText(self.stringa)
    self.milli.setNum(self.ms)

def Start(self):
    self.step = 0
    self.start_timer = 1
    self.timer.start(1) #1 millisecondo

def Split(self):
    if self.timer.isActive : #se il timer e attivo
        self.giro = self.giro + 1
        self.stringa_split = 'Lap ' + str(self.giro) + ' ' + str(self.min)+ ' : ' + str(self.sec)
        self.stringa_split += ' ' + str(self.ms) #converto numero in stringa
        self.lista_tempi.addItem(self.stringa_split) #aggiungo alla lista il parziale
        self.min = 0
        self.sec = 0
        self.ms = 0

def Stop(self):
    self.start_timer = 0
    self.timer.stop() #fermo il conteggio

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```
def Reset(self):
    self.timer.stop() #fermo il conteggio
    self.giro = 0
    self.step = 0
    self.start_timer = 0
    self.min = 0
    self.sec = 0
    self.ms = 0
    self.lista_tempi.clear() #azzero la lista memorizzata
    self.stringa = str(0)+':' + str(0) #converto numero in stringa
    self.stringa_2 = 'Lap ' + str(0) + ' ' + str(0)+':' + str(0)+':' + str(0)
    self.min_sec.setText(self.stringa)
    self.lista_tempi.addItem(self.stringa_2)
    self.milli.setNum(self.ms)

def retranslateUi(self, MainWindow):
    MainWindow.setWindowTitle(QtGui.QApplication.translate("MainWindow", "MainWindow", None,
QtGui.QApplication.UnicodeUTF8))
    self.Telemetria.setTitle(QtGui.QApplication.translate("MainWindow", "Telemetria", None,
QtGui.QApplication.UnicodeUTF8))
    self.label_DataOra.setText(QtGui.QApplication.translate("MainWindow", "Data / ora", None,
QtGui.QApplication.UnicodeUTF8))
    self.label_circuito.setText(QtGui.QApplication.translate("MainWindow", "Circuito", None,
QtGui.QApplication.UnicodeUTF8))
    self.groupBox_2.setTitle(QtGui.QApplication.translate("MainWindow", "Cronometro", None,
QtGui.QApplication.UnicodeUTF8))
    self.min_sec.setText(QtGui.QApplication.translate("MainWindow", "0:0", None, QtGui.
QtGui.QApplication.UnicodeUTF8))
    self.milli.setText(QtGui.QApplication.translate("MainWindow", "0", None, QtGui.
QtGui.QApplication.UnicodeUTF8))
    self.reset.setText(QtGui.QApplication.translate("MainWindow", "Reset", None, QtGui.
QtGui.QApplication.UnicodeUTF8))
    self.start_t.setText(QtGui.QApplication.translate("MainWindow", "Start", None, QtGui.
QtGui.QApplication.UnicodeUTF8))
    self.split.setText(QtGui.QApplication.translate("MainWindow", "Split", None, QtGui.
QtGui.QApplication.UnicodeUTF8))
    self.stop_t.setText(QtGui.QApplication.translate("MainWindow", "Stop", None, QtGui.
QtGui.QApplication.UnicodeUTF8))
    self.storico_t.setText(QtGui.QApplication.translate("MainWindow", "Storico", None, QtGui.
QtGui.QApplication.UnicodeUTF8))
    self.elimina_sess.setText(QtGui.QApplication.translate("MainWindow", "Elimina sess", None,
QtGui.QApplication.UnicodeUTF8))
    self.Temperature.setTitle(QtGui.QApplication.translate("MainWindow", "Temperature", None,
QtGui.QApplication.UnicodeUTF8))
    self.label_acqua.setText(QtGui.QApplication.translate("MainWindow", "Acqua", None, QtGui.
QtGui.QApplication.UnicodeUTF8))
    self.label_scarico.setText(QtGui.QApplication.translate("MainWindow", "Scarico", None,
QtGui.QApplication.UnicodeUTF8))
    self.Prestazioni.setTitle(QtGui.QApplication.translate("MainWindow", "Prestazioni", None,
QtGui.QApplication.UnicodeUTF8))
    self.label_giri_min.setText(QtGui.QApplication.translate("MainWindow", "g/min", None,
QtGui.QApplication.UnicodeUTF8))
    self.label_Kil_ora.setText(QtGui.QApplication.translate("MainWindow", "Km/h", None, QtGui.
QtGui.QApplication.UnicodeUTF8))
    self.label_l_pista.setText(QtGui.QApplication.translate("MainWindow", "L. pista", None,
QtGui.QApplication.UnicodeUTF8))
    self.label_offset_staccata.setText(QtGui.QApplication.translate("MainWindow", "Offset mt
staccata", None, QtGui.QApplication.UnicodeUTF8))
    self.set_dati.setText(QtGui.QApplication.translate("MainWindow", "Set Dati", None, QtGui.
QtGui.QApplication.UnicodeUTF8))
    self.del_dati.setText(QtGui.QApplication.translate("MainWindow", "Del. Dati", None, QtGui.
QtGui.QApplication.UnicodeUTF8))
    self.start_acquis.setText(QtGui.QApplication.translate("MainWindow", "Start acquisizione",
None, QtGui.QApplication.UnicodeUTF8))
    self.pushButton.setText(QtGui.QApplication.translate("MainWindow", "PushButton", None,
QtGui.QApplication.UnicodeUTF8))
    self.toolBar.setWindowTitle(QtGui.QApplication.translate("MainWindow", "toolBar", None,
QtGui.QApplication.UnicodeUTF8))
```

```
app = QtGui.QApplication(sys.argv)
window = QtGui.QMainWindow()
ui = Ui_MainWindow()
ui.setupUi(window)
window.show()
sys.exit(app.exec_())
```